

118778 - DC-Motor - RE35 GB 90W KL 2WE Ø35 × 70.9 mm

Standard Data

	118778	273754	
Values at nominal voltage			
Nominal voltage	42	42	V
No-load speed	7530	7580	rpm
No-load current	92.8	70.5	mA
Nominal speed	6760	6790	rpm
Nominal torque	100	106	mNm
Nominal current	2	2.09	A
Stall torque	1070	1090	mNm
Starting current	20.4	20.7	A
Efficiency, nom.	85.5	87.9	%
Nominal power	70.9	75.5	W
Characteristics			
Terminal resistance, nom.	2.06	2.03	Ω
Terminal inductance	0.62	0.62	mH
Terminal inductance	0.62	0.62	mH
Torque constant, nom.	52.5	52.5	mNm/A
Speed constant, nom.	182	182	rpm/V
Speed/torque gradient, nom.	7.15	7.03	rpm/mNm
Mechanical time constant	5.48	5.39	ms
Rotor inertia	73.3	73.3	gcm ²
Thermal data			
Reference temperature	25	25	°C
Therm. resistance housing-ambient	6.2	6.2	K/W
Therm. resistance winding-housing (N)	2	2	K/W
Thermal time constant winding	32.5	32.5	s
Thermal time constant motor	707	707	s
Ambient temperature	-30 .. 100	-30 .. 100	°C
Winding temperature	≤ 155	≤ 155	°C
Mechanical data			
Speed limit	12000	12000	rpm
Axial clearance	0.05 .. 0.15	0.05 .. 0.15	mm
Radial clearance text	≤ 0.025	≤ 0.025	mm
Axial force (dynamic)	≤ 5.6	≤ 5.6	N
Axial force (static)	≤ 110	≤ 110	N
Axial force, shaft supported	-1200 .. +1200	-1200 .. +1200	N
Radial force			N
Other specifications			
Pole pair number	1	1	-
Number of collector segments	13	13	-
Weight of motor	340	340	g